

AMENDMENTS TO THE CLAIMS:

If entered, this listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (currently amended) A system to perform a light show, wherein LED modules are displaying related light beams having defined properties, wherein said properties have been defined prior to performing said light show, is comprising:

an integrated circuit comprising:

an interface to input information;

a memory to store the information about the properties of said beams to be displayed;

a sequencer to control one or more LED drivers;

a LED driver unit comprising a driver for each color of said LED modules able to control the intensity of light where one driver for each LED is used; and

an electrical connection to said LED modules; and

an arrangement of one or more LEDs modules.

2. (original) The system of claim 1 wherein the parameters defining said properties of said light beams are downloaded via said interface to input information and stored in said memory.
3. (original) The system of claim 1 wherein said arrangement of one or more LED modules comprises three LED modules.
4. (original) The system of claim 1 wherein said arrangement of one or more LED modules comprises more than one LED each.
5. (original) The system of claim 4 wherein said arrangement of one or more LED modules comprises three LEDs each.
6. (currently amended) The system of claim 5 wherein said three LEDs emit each light of a different color wherein said colors are primary colors of a color space.
7. (currently amended) The system of claim 6 wherein said three LEDs emit red, green and blue light (RGB).
8. (original) The system of claim 1 wherein said LED drivers are PWM LED drivers.
9. (original) The system of claim 8 wherein said PWM drivers are 4-bit drivers.
10. (original) The system of claim 9 wherein 4096 different colors can be displayed.

- 11.(original) The system of claim 1 wherein said LED drivers are current controlled drivers.
- 12.(original) The system of claim 1 wherein said properties of said light beams comprise different defined brightness for each LED..
- 13.(original) The system of claim 1 wherein said properties of said light beams comprise different defined flashing intervals for each LED.
- 14.(original) The system of claim 1 wherein said properties of said light beams comprise different ON/OFF intervals, different colors, different brightness, and a flashing interval for each LED.
- 15.(original) The system of claim 1 wherein said LED driver unit is activating the lights in defined time intervals.
- 16.(currently amended) The system of claim 1 wherein said LED driver unit is controlling the transition between different colors of a LED module using a "flash" mode at turn on point of time wherein said LED is turned on initially to its maximum brightness followed quickly by athe set brightness.
17. (original) The system of claim 1 wherein said LED driver unit is controlling the transition between different colors of a LED module using a fading interval.

**18.**(original) The system of claim **17** wherein different options are possible to define said fading interval.

**19.**(original) The system of claim **18** wherein said options to define a fading interval include the options "No Fade", "Slow Fade", "Linear Fade", "Fast Fade".

**20.**(original) The system of claim **19** wherein only a few of said options are being used.

**21.**(canceled)

**22.**(original) The system of claim **1** wherein said circuit is realized in an ASIC.

**23.**(currently amended) The system of claim **1** wherein said LED modules are connected to said circuit via output pins.

**24.**(original) The system of claim **23** wherein said output pins are arranged and controlled by a multiplexer arrangement.

**25.**(original) The system of claim **24** wherein nine output pins are arranged and controlled by a multiplexer arrangement.

**26.**(original) The system of claim **1** wherein said properties of said light beams comprise a light pattern over a multitude of LED modules.

**27.** (original) The system of claim **1** wherein said properties of said light beams comprise a light intensity setting.

**28.** (original) The system of claim **27** wherein said light intensity setting is defined for each LED individually.

**29.** (original) The system of claim **1** wherein said properties of said light beams comprise a defined sequencing of said LEDs.

**30.** (currently amended) A system for visual, electronic communication, highlighting information/events, wherein LED modules are displaying related light signals having defined properties representing said different information/events, is comprising:

an integrated circuit comprising:

an interface to input information;

a memory to store the information about the properties of said signals to be displayed;

a sequencer to control one or more LED drivers;

a LED driver unit comprising a driver for each color of LED able to control the intensity of light where one driver for each LED is used;  
and

an electrical connection to said LED modules; and

an arrangement of one or more LEDs modules.

- 31.**(original) The system of claim **30** wherein the parameters defining said properties of said light signals are downloaded via said interface to input information and stored in said memory.
- 32.**(original) The system of claim **30** wherein said arrangement of one or more LED modules comprises three LED modules.
- 33.**(original) The system of claim **30** wherein said arrangement of one or more LED modules comprises more than one LED each.
- 34.**(original) The system of claim **33** wherein said arrangement of one or more LED modules comprises three LEDs each.
- 35.**(original) The system of claim **34** wherein said three LEDS emit each light of a different color wherein said colors are primary colors of a color space.
- 36.**(original) The system of claim **35** wherein said three LEDS emit red, green and blue light (RGB).
- 37.**(original) The system of claim **30** wherein said LED drivers are PWM LED drivers.
- 38.**(original) The system of claim **37** wherein said PWM drivers are 4-bit drivers.
- 39.**(original) The system of claim **38** wherein 4096 different colors can be displayed.

- 40.**(original) The system of claim **30** wherein said LED drivers are current controlled drivers.
- 41.**(original) The system of claim **30** wherein said related signals representing said different information/events are displayed using lights having different brightness.
- 42.**(original) The system of claim **30** wherein said related signals representing said different information/events are displayed using flashing lights.
- 43.**(original) The system of claim **30** wherein defined categories of information are assigned to specific locations of LED modules.
- 44.**(original) The system of claim **30** wherein said related signals representing said different information/events are displayed using lights having a related ON/OFF interval.
- 45.**(original) The system of claim **30** wherein said related signals representing said different information/events are displayed using lights having a related ON/OFF interval, different colors, different brightness, a flashing interval, an assignment to specific positions, and a related ON/OFF interval.
- 46.**(original) The system of claim **30** wherein said LED driver unit is activating the lights in defined time intervals.

- 47.** (currently amended) The system of claim **30** wherein said LED driver unit is controlling the transition between different colors of a LED module using a “flash” mode at turn on point of time wherein said LED is turned on initially to its maximum brightness followed quickly by athe set brightness.
- 48.** (original) The system of claim **30** wherein said LED driver unit is controlling the transition between different colors of a LED module using a fading interval.
- 49.** (original) The system of claim **48** wherein different options are possible to define said fading interval.
- 50.** (original) The system of claim **49** wherein said options to define a fading interval include the options “No Fade”, “Slow Fade”, “Linear Fade”, “Fast Fade”.
- 51.** (original) The system of claim **50** wherein only a few of said options are being used.
- 52.** (canceled)
- 53.** (original) The system of claim **30** wherein said circuit is realized in an ASIC.
- 54.** (currently amended) The system of claim **30** wherein said LED modules are connected to said circuit via output pins.



- 55.** (original) The system of claim **54** wherein nine output pins are arranged and controlled by a multiplexer arrangement.
- 56.** (currently amended) The system of claim **55** wherein nine output pins are arranged and controlled by a multiplexer arrangement.
- 57.** (original) The system of claim **30** wherein said properties of said light signals to be displayed comprise a light pattern over a multitude of LED modules.
- 58.** (original) The system of claim **30** wherein said properties of said signals to be displayed comprise a light intensity setting
- 59.** (original) The system of claim **58** wherein said properties of said signals to be displayed comprise a light intensity setting for each LED individually.
- 60.** (original) The system of claim **30** wherein said properties of said signals to be displayed comprise a defined sequencing of said LEDs.
- 61.** (currently amended) A phone system highlighting information/events, wherein LED modules are displaying related signals representing said different information/events, is comprising:
- an integrated circuit comprising:
- an interface to input of information;

a memory to store the information about the properties of said signals to be displayed;

a sequencer to control one or more LED drivers;

a LED driver unit comprising a driver for each color of LED able to control the intensity of light where one driver for each LED is used;

and

an electrical connection to said LED modules; and

an arrangement of one or more LED modules.

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**62.** (original) The system of claim **61** wherein said LED modules are located on a prominent location of said phone system.

**63.** (original) The system of claim **61** wherein said LED modules are located on the front side of said phone system.

**64.** (original) The system of claim **61** wherein said LED modules are located on the sides of said phone system.

**65.** (original) The system of claim **61** wherein said phone system is a mobile phone.

**66.** (original) The system of claim **65** wherein said LED modules are located on the backside of said mobile phone.

- 67.**(original) The system of claim **61** wherein said phone comprises composer software to define the parameters of said sequencer and to download said parameters to said memory.
- 68.** (original) The system of claim **61** wherein the parameters of said sequencer are downloaded from a PC.
- 69.**(original) The system of claim **61** wherein the parameters of said sequencer are downloaded from the Internet.
- 70.**(original) The system of claim **61** wherein said arrangement of one or more LED modules comprises three LED modules.
- 71.**(original) The system of claim **61** wherein said arrangement of one or more LED modules comprises more than one LED each.
- 72.**(original) The system of claim **71** wherein said arrangement of one or more LED modules comprises three LEDs each.
- 73.**(original) The system of claim **72** wherein said three LEDS emit each a light of a different color wherein said colors are primary colors of a color space.
- 74.**(original) The system of claim **73** wherein said three LEDS emit red, green and blue light (RGB).

- 75.** (original) The system of claim **61** wherein said LED drivers are PWM LED drivers.
- 76.** (original) The system of claim **75** wherein said PWM drivers are 4-bit drivers.
- 77.** (original) The system of claim **76** wherein 4096 different colors can be displayed.
- 78.** (original) The system of claim **61** wherein said LED drivers are current controlled drivers
- 79.** (original) The system of claim **61** wherein said related signals representing said different information/events are displayed using lights having different brightness.
- 80.** (original) The system of claim **61** wherein said related signals representing said different information/events are displayed using flashing lights.
- 81.** (original) The system of claim **61** wherein defined categories of information are assigned to specific locations of LED modules.
- 82.** (original) The system of claim **61** wherein said related signals representing said different information/events are displayed using lights having a related ON/OFF interval.

- 83.** (original) The system of claim **61** wherein said related signals representing said different information/events are displayed using lights having a related ON/OFF interval, different colors, different brightness, a flashing interval, an assignment to specific positions, and a related ON/OFF interval.
- 84.** (original) The system of claim **61** wherein said LED driver unit is activating the lights in defined time intervals.
- 85.** (currently amended) The system of claim **61** wherein said LED driver unit is controlling the transition between different colors of a LED module using a “flash” mode at turn on point of time wherein said LED is turned on initially to its maximum brightness followed quickly by athe set brightness.
- 86.** (original) The system of claim **61** wherein said LED driver unit is controlling the transition between different colors of a LED module using a fading interval.
- 87.** (original) The system of claim **86** wherein different options are possible to define said fading interval.
- 88.** (original) The system of claim **87** wherein said options to define a fading interval include the options “No Fade”, “Slow Fade”, “Linear Fade”, “Fast Fade”.
- 89.** (original) The system of claim **88** wherein only a few of said options are being used.

**90.** (canceled)

**91.** (original) The system of claim **61** wherein said circuit is realized in an ASIC.

**92.** (currently amended) The system of claim **61** wherein said LED modules are connected to said circuit via output pins.

**93.** (original) The system of claim **92** wherein nine output pins are arranged and controlled by a multiplexer arrangement.

**94.** (original) The system of claim **93** wherein nine output pins are arranged and controlled by a multiplexer arrangement.

**95.** (original) The system of claim **61** wherein said properties of said light signals to be displayed comprise a light pattern over a multitude of LED modules.

**96.** (original) The system of claim **61** wherein said properties of said signals to be displayed comprise a light intensity setting.

**97.** (original) The system of claim **96** wherein said properties of said signals to be displayed comprise a light intensity setting for each LED individually.

**98.**(original) The system of claim **61** wherein said properties of said signals to be displayed comprise a defined sequencing of said LEDs.

**99.**(currently amended) A method to establish visual, electronic communication, highlighting information/events, wherein LED modules are displaying related light signals having defined properties representing said different information/events comprising:

5           providing an integrated circuit comprising an interface, a memory, a sequencer, a LED driver unit connected to LEDs, and one or more LED modules, comprising more than one LED each;

              determine the information to be visually highlighted;

              define the kind of highlighting of the information selected above;

10           compose the sequencer steps according to the definitions of the two steps above;

              if said composing software is built into athe phone, store the sequences in said memory;

              otherwise download sequences and store them in said memory; and

15           ready for operation.

**100.** (original) The method of claim **99** wherein said related signals representing said different information/events are displayed using lights having different colors.

**101.** (original) The method of claim **100** wherein 4096 different colors are used.

- 102.** (original) The method of claim **99** wherein said related signals representing said different information/events are displayed using lights having different brightness.
- 103.** (original) The method of claim **99** wherein said related signals representing said different information/events are displayed using flashing lights.
- 104.** (original) The method of claim **99** wherein said related signals representing said different information/events are displayed using LED modules assigned to specific positions.
- 105.** (original) The method of claim **99** wherein said related signals representing said different information/events are displayed using lights having a related ON/OFF interval.
- 106.** (currently amended) The method of claim **99** wherein said related signals representing said different information/events are displayed using lights having ~~a related ON/OFF interval~~, different colors, different brightness, a flashing interval, an assignment to specific positions, and a related ON/OFF interval.
- 107.** (currently amended) The method of claim **106** wherein said LED driver unit is controlling the transition between different colors of a LED module using a “flash” mode at turn on point of time wherein said LED is turned on initially to its maximum brightness followed quickly by ~~at~~ the set brightness.